## AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

## **LISTING OF CLAIMS**

1. (PREVIOUSLY PRESENTED) A network device operable to:

by itself generate and send a backward path request message to a source of a separately generated, initial forward path request message associated with a forward Label Switched Path (LSP) between the device and the source; and

receive a backward path reservation message from the source in order to establish a backward LSP between the device and the source, wherein the separately established forward and backward LSPs form a bi-directional LSP between the device and the source.

2. (ORIGINAL) The device as in claim 1 further operable to generate and send an initial, forward path reservation message to the source in order to establish the forward LSP after receiving the initial forward path request message.

3. (ORIGINAL) The device as in claim 1 further operable to generate and

send a backward path reservation message to a destination after receiving a backward

path request message from the destination in order to establish a backward LSP between

the device and the destination.

4. (PREVIOUSLY PRESENTED) The device as in claim 3 further operable to

separately generate and send a forward path request message to the destination in order to

establish a forward LSP between the device and the destination, wherein the separately

established forward and backward LSPs between the device and the destination form a

bi-directional LSP between the device and the destination.

5. (ORIGINAL) The device as in claim 1 wherein the forward and backward

LSPs between the device and source comprise the same path.

6. (ORIGINAL) The device as in claim 4 wherein the forward and backward

LSPs between the device and destination comprise the same path.

7. (ORIGINAL) The device as in claim 1 further operable to generate the

backward path request message based on backward path parameters contained in the

initial forward path request message.

8. (CANCELED)

9. (PREVIOUSLY PRESENTED) The device as in claim 7 further operable to query a local database to obtain routing information in order to generate the backward path request message.

10. (ORIGINAL) The device as in claim 7 further operable to generate the backward path request message based on a quality-of-service (QoS) indicator contained within the parameters.

- 11. (ORIGINAL) The device as in claim 7 further operable to generate the backward path request message based on best effort routing information when a QoS indicator is not contained within the parameters.
- 12. (PREVIOUSLY PRESENTED) The device as in claim 7 wherein the traffic parameters comprise a bi-directional LSP indicator and a QoS indicator.
- 13. (ORIGINAL) The device as in claim 1 further operable to request backward traffic parameters from the source when the initial path request message does not contain such parameters.

14. (ORIGINAL) The device as in claim 1 further operable to generate and send a first delete path message to the source and to receive a second delete path message from the source in order to delete the bi-directional LSP.

15. (ORIGINAL) The device as in claim 14 further operable to send the first delete path message to the source before receiving the second delete path message from the source.

16. (ORIGINAL) The device as in claim 14 further operable to send the first delete path message to the source after receiving the second delete path message from the source.

17. (PREVIOUSLY PRESENTED) A network device operable to generate independently and send a backward path reservation message to a destination after receiving a backward path request message from the destination in order to establish a backward LSP between the device and the destination.

18. (PREVIOUSLY PRESENTED) The device as in claim 17 further operable to separately generate and send a forward path request message to the destination in order to establish a forward LSP between the device and the destination, wherein the separately

established forward and backward LSPs between the device and the destination form a bi-directional LSP between the device and the destination.

## 19. (CANCELED)

- 20. (ORIGINAL) The device as in claim 17 further operable to generate and send a first delete path message to the destination and to receive a second delete path message from the destination in order to delete the bi-directional LSP.
- 21. (ORIGINAL) The device as in claim 20 further operable to send the first delete path message to the destination before receiving the second delete path message from the destination.
- 22. (ORIGINAL) The device as in claim 20 further operable to send the first delete path message to the destination after receiving the second delete path message from the destination.
- 23. (PREVIOUSLY PRESENTED) A method for creating a bi-directional LSP comprising the steps of:

generating and sending an independent backward path request message to a source of a separately generated, initial forward path request message associated with a forward Label Switched Path (LSP) between the device and the source; and

receiving a backward path reservation message from the source in order to establish a backward LSP between the device and the source, wherein the separately established forward and backward LSPs form a bi-directional LSP between the device and the source.

- 24. (ORIGINAL) The method as in claim 23 further comprising the steps of generating and sending an initial, forward path reservation message to the source in order to establish the forward LSP after receiving the initial forward path request message.
- 25. (PREVIOUSLY PRESENTED) The method as in claim 23 further comprising the steps of generating and sending an independent backward path reservation message to a destination after receiving a backward path request message from the destination in order to establish a backward LSP between the device and the destination.
- 26. (PREVIOUSLY PRESENTED) The method as in claim 25 further comprising the steps of separately generating and sending a forward path request message to the destination in order to establish a forward LSP between the device and the destination, wherein the separately established forward and backward LSPs between the

device and the destination form a bi-directional LSP between the device and the destination.

27-28 (CANCELED)

29. (ORIGINAL) The method as in claim 23 further comprising the step of generating the backward path request message based on backward path parameters contained in the initial forward path request message.

30. (CANCELED)

- 31. (PREVIOUSLY PRESENTED) The method as in claim 29 further comprising the step of querying a local database to obtain routing information in order to generate the backward path request.
- 32. (ORIGINAL) The method as in claim 29 further comprising the step of generating the backward path request message based on a quality-of-service (QoS) indicator contained within the parameters.

33. (ORIGINAL) The method as in claim 29 further comprising the step of generating the backward path request message based on best effort routing information when a QoS indicator is not contained within the parameters.

34. (PREVIOUSLY PRESENTED) The method as in claim 29 wherein the traffic parameters comprise parameters selected from the group consisting of a bi-directional LSP indicator and a QoS indicator.

35. (CURRENTLY AMENDED) The method as in claim 23 further comprising the step of requesting backward traffic parameters from the <u>source</u>.

36. (ORIGINAL) The method as in claim 23 further comprising the steps of generating and sending a first delete path message to the source and receiving a second delete path message from the source in order to delete the bi-directional LSP.

37. (ORIGINAL) The method as in claim 36 further comprising the step of sending the first delete path message to the source before receiving the second delete path message from the source.

- 38. (ORIGINAL) The method as in claim 36 further comprising the step of sending the first delete path message to the source after receiving the second delete path message from the source.
- 39. (ORIGINAL) A method for creating a bi-directional LSP comprising the steps of generating and sending a backward path reservation message to a destination after receiving a backward path request message from the destination in order to establish a backward LSP between the device and the destination.
- 40. (PREVIOUSLY PRESENTED) The method as in claim 39 further comprising the steps of separately generating and sending a forward path request message to the destination in order to establish a forward LSP between the device and the destination, wherein the separately established forward and backward LSPs between the device and the destination form a bi-directional LSP between the device and the destination.
- 41. (ORIGINAL) The method as in claim 40 wherein the forward and backward LSPs between the device and destination comprise the same path.

- 42. (ORIGINAL) The method as in claim 39 further comprises the steps of generating and sending a first delete path message to the destination and to receive a second delete path message from the destination in order to delete the bi-directional LSP.
- 43. (ORIGINAL) The method as in claim 42 further comprising the step of sending the first delete path message to the destination before receiving the second delete path message from the destination.
- 44. (ORIGINAL) The method as in claim 42 further comprising the step of sending the first delete path message to the destination after receiving the second delete path message from the destination.
  - 45. (Previously Presented) A network device comprising:

means for generating and sending a backward path request message to a source of a separately generated, initial forward path request message associated with a forward Label Switched Path (LSP) between the device and the source; and

means for receiving a backward path reservation message from the source in order to establish a backward LSP between the device and the source, wherein the separately established forward and backward LSPs form a bi-directional LSP between the device and the source.

46. (ORIGINAL) The device as in claim 45 further comprising means for generating and sending an initial, forward path reservation message to the source in order to establish the forward LSP after receiving the initial forward path request message.

47. (ORIGINAL) The device as in claim 45 further comprising means for generating and sending a backward path reservation message to a destination after receiving a backward path request message from the destination in order to establish a backward LSP between the device and the destination.

48. (PREVIOUSLY PRESENTED) The device as in claim 47 further comprising means for separately generating and sending a forward path request message to the destination in order to establish a forward LSP between the device and the destination, wherein the separately established forward and backward LSPs between the device and the destination form a bi-directional LSP between the device and the destination.

49-50. (CANCELED)

51. (ORIGINAL) The device as in claim 45 further comprising means for generating the backward path request message based on backward path parameters contained in the initial forward path request message.

- 52. (CANCELED)
- 53. (PREVIOUSLY PRESENTED) The device as in claim 51 further comprising means for querying a local database to obtain routing information in order to generate the backward path request.
- 54. (ORIGINAL) The device as in claim 51 further comprising means for generating the backward path request message based on a quality-of-service (QoS) indicator contained within the parameters.
- 55. (ORIGINAL) A network device comprising means for generating and sending a backward path reservation message to a destination after receiving a backward path request message from the destination in order to establish a backward LSP between the device and the destination.

56. (PREVIOUSLY PRESENTED) The device as in claim 55 further comprising means for separately generating and sending a forward path request message to the destination in order to establish a forward LSP between the device and the destination, wherein the separately established forward and backward LSPs between the device and the destination form a bi-directional LSP between the device and the destination.

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